

Amendments to the Claims:

Claims 1-88 have been canceled.

89. (Currently amended) A simulation environment comprising:
a plurality of fiducials distributed throughout a selected area and positioned for detection;

a mobile simulation unit, including:

an optical detector sized for transport by a user and responsive to each of the fiducials to produce a signal indicative of the respective fiducial;

an electronic processor coupled to the optical detector and responsive to the signal indicative of the respective fiducial to produce an electrical signal representing a virtual simulated image for viewings, wherein each virtual simulated image corresponds to a respective fiducial and represents a feature of the simulation environment; and

a head-mounted display assembly, configured for mounting to a user's body and coupled to the electronic processor, the head-mounted display being responsive to the electrical input signal to produce the virtual simulated image for viewing by a user.

90. (Previously presented) The simulation environment of claim 89 wherein the head-mounted display is coupled to the electronic processor by an electronic transmitter.

91. (Previously presented) The simulation environment of claim 89 wherein the optical detector includes an infrared emitter and infrared detector.

92. (Previously presented) The simulation environment of claim 89 wherein the head-mounted display assembly includes:

a scanning infrared source; that emits infrared light modulated according to the electrical input signal;

a viewing assembly aligned to receive the modulated infrared light and responsive to the modulated infrared light to produce visible light for viewing by the user.

93. (Previously presented) The simulation environment of claim 89 wherein the head-mounted display assembly includes a scanning beam display.

94. (Previously presented) The simulation environment of claim 89 wherein the optical detector includes a scanning assembly oriented to direct light into the selected area.

95. (Currently amended) A mobile simulation apparatus for use in a simulation environment, comprising:

an optical imager sized for transport by a user and oriented to capture images from the simulation environment, the optical imager being operative to produce electrical signals corresponding to the captured images;

an electronic processor responsive to the electrical signals corresponding to the captured images to produce a drive signal corresponding to the captured images; and

a head-mounted display assembly, configured for mounting to a user's body while substantially occluding external light from the user's vision and responsive to the drive input signal to produce a virtual simulated image for viewing by a user, the head mounted display including:

a scanning infrared source; that emits infrared light modulated according to the drive signal;

a viewing assembly aligned to receive the modulated infrared light and responsive to the modulated infrared light to produce visible light for viewing by the user.

96. (Previously presented) The simulation environment of claim 95 wherein the head-mounted display is coupled to the electronic processor by an electronic transmitter.

97. (Previously presented) The simulation environment of claim 95 wherein the optical imager includes a video camera.

98. (Previously presented) The simulation environment of claim 95 wherein the viewing assembly includes:

an image source operative to emit infrared light corresponding to the captured image; and

an IR viewer oriented to receive the emitted infrared light and responsive to produce a visible image corresponding to the captured image for viewing by the user.

99. (Previously presented) The simulation environment of claim 95 wherein the head-mounted display assembly includes a scanning beam display.

100. (Previously presented) The simulation environment of claim 95 wherein the optical imager includes a scanning assembly oriented to direct light into the selected area.

REMARKS

In the Office Action dated June 7, 2004, claims 89-100 were rejected by the Examiner under 35 U.S.C. 102(b) as anticipated by Task et al. or in the alternative, under 35 U.S.C. 103(a) as obvious over Task in view of Hanson et al.. Also in the